

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1 1. (Currently Amended) A method of controlling communications in a wireless network comprising:
 - 3 receiving, in a wireless network controller, an indicator that comprises one of plural training sequences in a message sent over an air link by a mobile station to establish a data transfer session in the wireless network; and
 - 6 selecting one of plural types of protocol stacks in the wireless network controller to use for communications over the air link between the wireless network controller and mobile station based on the indicator which of the plural training sequences is in the message.

- 1 2. (Currently Amended) A method of controlling communications in a wireless network comprising:
 - 3 receiving, in a wireless network controller, an indicator a Temporary Logical Link Identity (TLLI) structure in a message sent over an air link by a mobile station to establish a data transfer session in the wireless network; and
 - 6 selecting one of plural types of protocol stacks in the wireless network controller to use for communications over the air link between the wireless network controller and mobile station based on the indicator a value of the TLLI structure,
 - 9 wherein selecting one of plural types of protocol stacks comprises selecting from protocol stacks comprising a GERAN protocol stack.

- 1 3. (Original) The method of claim 2, wherein selecting one of plural types of protocol stacks comprises selecting from plural stacks comprising the GERAN protocol stack and an EGPRS protocol stack.

- 1 4. (Original) The method of claim 1, wherein selecting one of plural types of protocol stacks comprises selecting from protocol stacks comprising an EGPRS protocol stack.

1 5. (Previously Presented) A method of controlling communications in a wireless
2 network comprising:

3 receiving, in a wireless network controller, an indicator in a message sent by a
4 mobile station to establish a data transfer session in the wireless network; and

5 selecting one of plural types of protocol stacks to use for communications over an
6 air link between the wireless network controller and mobile station based on the indicator,

7 wherein receiving the indicator comprises receiving a Temporary Logical Link
8 Identity structure having one of plural values.

1 6. (Original) The method of claim 5, wherein selecting one of plural types of
2 protocol stacks comprises selecting a first protocol stack if the Temporary Logical Link Identity
3 structure has a first value.

1 7. (Original) The method of claim 6, wherein selecting one of plural types of
2 protocol stacks further comprises selecting a second protocol stack if the Temporary Logical
3 Link Identity structure has a second value.

1 8. (Original) The method of claim 1, wherein selecting one of plural types of
2 protocol stacks comprises selecting a first protocol stack if the indicator has a first value and
3 selecting a second protocol stack if the indicator has a second value.

1 9. (Previously Presented) A method of controlling communications in a wireless
2 network comprising:

3 receiving, in a wireless network controller, an indicator in a message sent by a
4 mobile station to establish a data transfer session in the wireless network; and

5 selecting one of plural types of protocol stacks to use for communications over an
6 air link between the wireless network controller and mobile station based on the indicator,

7 wherein receiving the indicator comprises receiving a parameter used for
8 contention resolution by the wireless network controller for distinguishing between multiple
9 mobile stations that are contending for a common resource.

1 10. (Original) The method of claim 9, further comprising performing contention
2 resolution using the parameter.

1 11. (Original) The method of claim 9, wherein receiving the parameter comprises
2 receiving a Temporary Logical Link Identity.

1 12. (Original) The method of claim 9, wherein receiving the parameter comprises
2 receiving a GERAN Contention Resolution Identity.

1 13. (Cancelled)

1 14. (Previously Presented) A system comprising:
2 an interface to an air link to communicate with mobile stations; and
3 a controller adapted to perform contention resolution with a first type of mobile
4 station using a first type of indicator, the controller adapted to communicate signaling according
5 to a first wireless protocol with the first type of mobile station, and
6 the controller adapted to perform contention resolution with a second type of
7 mobile station using a second type of indicator, the controller adapted to communicate signaling
8 according to a second wireless protocol with the second type of mobile station.

1 15. (Original) The system of claim 14, wherein the first wireless protocol comprises
2 a GERAN wireless protocol.

1 16. (Original) The system of claim 15, wherein the second wireless protocol
2 comprises an EGPRS wireless protocol.

1 17. (Original) The system of claim 14, wherein the first wireless protocol comprises
2 an EGPRS wireless protocol.

1 18. (Original) The system of claim 14, wherein the first type of indicator comprises a
2 Temporary Logical Link Identity (TLLI) structure having a first value, and the second type of
3 indicator comprises a TLLI structure having a second value.

1 19. * (Previously Presented) The system of claim 18, wherein the first value indicates
2 one of a local TLLI, a foreign TLLI, and a random TLLI, and the second value indicates one of a
3 local GCRI and a random GCRI.

1 20. (Currently Amended) An article comprising at least one storage medium
2 containing instructions that when executed cause a wireless access system to:

3 receive ~~an indicator~~ a Temporary Logical Link Identity (TLLI) structure in a
4 message sent by a mobile station over an air link to establish a data transfer session; and
5 select, based on a value of the TLLI structure, one of plural protocol stacks in the
6 wireless access system to use for communications over the air link between the wireless access
7 system and the mobile station.

1 21. (Original) The article of claim 20, wherein the instructions when executed cause
2 the wireless access system to select one of plural protocol stacks by selecting a first protocol
3 stack in response to the indicator having a first value and selecting a second protocol stack in
4 response to the indicator having a second value.

1 22. (Currently Amended) An article comprising at least one storage medium
2 containing instructions that when executed cause a wireless access system to:

3 receive ~~an indicator~~ a Temporary Logical Link Identity (TLLI) structure in a
4 message sent by a mobile station over an air link to establish a data transfer session; and
5 select one of ~~plural protocol stacks~~ a GERAN protocol stack and an EGPRS
6 protocol stack, in response to one of plural values of the TLLI structure, in the wireless access
7 system to use for communications over an air link between the wireless access system and the
8 mobile station;

9 ~~wherein the instructions when executed cause the wireless access system to select~~
10 ~~one of a GERAN protocol stack and an EGPRS protocol stack.~~

1 23. (Cancelled)

1 24. (Previously Presented) An article comprising at least one storage medium
2 containing instructions that when executed cause a wireless access system to:

3 perform contention resolution with a first type of mobile station using a first type
4 of indicator;

5 communicate signaling according to a first wireless protocol with the first type of
6 mobile station;

7 perform contention resolution with a second type of mobile station using a second
8 type of indicator; and

9 communicate signaling according to a second wireless protocol with the second
10 type of mobile station.

1 25. (Original) The article of claim 24, wherein the instructions when executed cause
2 the wireless access system to select one of plural types of protocol stacks based on which of the
3 first and second types of indicators is received.

1 26. (Previously Presented) The article of claim 24, wherein performing contention
2 resolution with the first type of mobile station comprises performing contention resolution using
3 the first type of indicator to distinguish between the first type mobile station and at least another
4 mobile station, and

5 wherein performing contention resolution with the second type of mobile station
6 comprises performing contention resolution using the second type of indicator to distinguish
7 between the second type of mobile station and another mobile station.

1 27. (Previously Presented) The method of claim 1, wherein selecting one of plural
2 types of protocol stacks in the wireless network controller comprises selecting one of plural types
3 of protocol stacks in one of a base station controller and radio network controller.

1 28. (Previously Presented) The system of claim 14, wherein the controller performs
2 contention resolution with the first type of mobile station by distinguishing the first type of
3 mobile station from another mobile station using the first type of indicator, and

4 the controller performs contention resolution with the second type of mobile
5 station by distinguishing the second type of mobile station from another mobile station using the
6 second type of indicator.